

General building contractor is a building contractor, qualified and certified on or before the effective date of this ordinance, whose contracting business consists of the execution of contracts involving two (2) or more trades and who has the financial means, and has a qualifying agent with the experience, knowledge and skill gained by not less than ten (10) years' experience either as a superintendent for a general contractor or as a licensed building contractor for such period (or has had an education equivalent thereto), or any combination thereof, to construct and properly supervise, direct and coordinate the construction of buildings and other structures in such a manner as to comply with all plans, specifications, codes, laws and regulations applicable and who has satisfactorily passed a general building contractors' examination. The scope of work of the general contractor shall be unlimited as to height, area and complexity of the construction such contractor undertakes. Such contractor shall sub-contract to a qualified contractor in the field concerned, all other work specified herein as being the exclusive work of a plumbing, electrical, mechanical, or liquefied petroleum gas contractor, including the specialties and categories there under. A general building contractor may do, contract for, and take out permits for the work of a general engineering contractor, room air conditioning contractor, installation only, and any specialty building contractor as defined herein.

Sub-general building contractor is a building contractor, qualified and certified on or before the effective date of this ordinance, whose contracting business consists of the execution of contracts involving two (2) or more trades, and who has the financial means, and has a qualifying agent with the experience, knowledge and skill gained by not less than five (5) years' experience either as a superintendent for a general contractor or a sub-contractor or has been licensed as a sub-building contractor for such period (or has had an education equivalent thereto), or any combination thereof, to construct and properly supervise, direct and coordinate the constructions of not more than three (3) stories in height. This provision shall not prohibit him from engaging in interior alterations and repairs to buildings of greater height, or from acting as a subcontractor under the supervision or responsibility of a general contractor in the construction of a structure of a greater height. Such sub-general building contractor shall sub-contract to a qualified contractor in the field concerned all other work specified herein as being exclusive work of a plumbing, electrical, mechanical, or liquefied petroleum gas contractor, including the specialties and categories there under. A sub-general contractor may construct, contract for, and take out permits for sidewalks, curbs and gutters on rights-of-way or proposed rights-of-way when such work is incidental and pertinent to the work of a sub-general contractor, and may perform the work of a room air conditioning contractor, installation only, and of any specialty building contractor within the limits of work of a sub-general contractor as defined herein except that of house moving. Demolition work of such a sub-general building contractor shall be limited to the size and scope of buildings or structures which a sub-general building contractor is permitted to erect.

Sub-building contractor is a building contractor, qualified and certified on or before the effective date of this ordinance, whose contracting business consists of the execution of contracts involving two (2) or more trades and who has the financial means and has a qualifying agent with the experience, knowledge and skill gained by not less than three (3) years' experience as a superintendent for a general, and/or a sub-general building and/or a sub-building contractor (or has had an education equivalent thereto), or any combination thereof, to construct and properly supervise, direct and coordinate the construction of buildings and other structures in such a manner as to comply with all plans, specifications, codes, laws and regulations applicable and has satisfactorily passed a sub-building contractors examination. The scope of work of the sub-building contractor shall be limited to construction, addition, alteration or repair of non-residential buildings not exceeding fifteen hundred (1500) square feet in area and one (1) story in height, except that such contractor may construct, add to, or repair single family, or two-family buildings of any area where such building is of simple design with load bearing walls, and does not exceed two (2) stories in height. Such sub-building contractor shall subcontract to a qualified contractor in the field concerned all other work specified herein as being the exclusive work of a plumbing, electrical, mechanical, liquefied petroleum gas contractor, including the specialties and categories there under. A sub-building contractor may construct, contract for and take out permits for sidewalks, curbs and gutters on rights of-way or proposed rights-of-way when such work is incidental and pertinent to the work of a sub-building contractor, and may perform the work of a room air conditioning contractor, (installation only), and of any specialty building contractor regardless of the height of building, except those specialties which involve structural work, in which case such contractor shall be limited to the same building as is permitted within the scope of work of a sub-building contractor as defined herein, excepting that of house moving. Demolition work of such a contractor shall be limited to the size and scope of buildings or structures which a sub-general building contractor is permitted to erect.

Specialty building contractor is a building contractor who specializes in one (1) or more of the following building crafts and whose scope of work is so limited under the certificate of competency held, and whose principal contracting business is the execution of contracts, usually subcontracts, in such a manner as to comply with all plans, specifications, codes, laws and regulations applicable, and has satisfactorily passed an examination for the specialty concerned, and who has the financial means and has a qualifying agent with the experience, knowledge and skill as evidenced by three (3) years' experience in the trade or educational equivalent thereto, or any combination thereof as approved by the Board, in the particular building specialty concerned, except as such three (3) year period may be modified in the particular categories listed hereinafter. Such contractor shall subcontract with a qualified contractor any work which is incidental to the work of the specialty but which is specified herein as being the work of other than that of the building specialty for which certified. The following are the various crafts of specialty building contractors.

Building maintenanceman is a contractor qualified by one (1) year experience, who has passed a written examination and certified to maintain buildings and structures owned or occupied by the person, firm or corporation by which the building maintenanceman is regularly employed. The work of a building maintenanceman shall be confined to the erection, repair or relocation of nonbearing interior partitions, painting, the patching of stucco and plaster, the repair of floors of all types, the repair of cabinets and counters of wood, metal or plastic, the repair of awnings and canopies, the repair of wall and floor tile. A building maintenanceman may only make repairs to bearing walls, both interior and exterior. A building maintenanceman shall not make addition to or change the outline of any building or structure, and the work of a building maintenanceman shall not include roofing, plumbing, electrical, mechanical or liquefied petroleum gas work of any kind. A certified sub-building, sub-general or general contractor shall automatically qualify as a building maintenanceman.

A concrete forming and placing contractor is a contractor qualified by three (3) years of experience, who has passed a written examination and certified to proportion, batch and mix aggregates, cement and water to agreed specifications; to construct forms and framework for the casting and shaping of concrete, including but not limited to columns, beams, decks and window frames; to place and erect reinforcing steel and miscellaneous embedded steel; and to pour, place and finish concrete, including terrazzo.

Concrete slab sawing and core-drilling contractor is a contractor qualified by one (1) year experience, who has passed a written examination and certified to cut and/or core concrete, asphalt or any masonry combination thereof. Where cutting or coring is done on any structural member of any building or structure, it shall be under the direct supervision of the general or prime contractor and professional engineer who is responsible for that building or structure. All cutting or coring is to be approved by and coordinated between the general or prime contractor and the specialty or subcontractor as to the layout of the work to be performed.

Demolition contractor is a contractor qualified by three (3) years experience, who has passed a written examination and certified to demolish, wreck or disassemble buildings or other structures or parts thereof and remove the debris there from in such a manner that adjoining structures and properties and parts thereof and workmen and other persons may be kept safe.

Drywall contractor is a contractor qualified by one (1) year and six (6) months experience, who has passed a written examination and certified to install gypsum drywall products to studs, joists and suspended ceiling channels and to fabricate and install accessories and all necessary trim in connection therewith including metal and wood studs, runners, hangers, channels, drywall metal suspension accessories and prefabricated ceiling materials, provided that any plaster work or troweled material, application of block partitions shall not be a part of the scope of such work.

Fence contractor is a contractor qualified by one (1) year and six (6) months of experience, who has passed a written examination and certified to fabricate, assemble, erect and install fences of masonry, wire, concrete, wood and other fence materials, in such manner that an acceptable fence can be erected complying with applicable regulations including zoning regulations.

Glass and glazing contractor is a contractor qualified by three (3) years experience, who has passed a written examination and certified to fabricate, install and attach windows of any type, fixed or movable, and swinging or sliding glass doors to building walls or columns erected by others including installation of glass-holding or supporting mullions or horizontal bars which in turn are attached to building walls or columns erected by others, including the cutting and installation of glass, and shall also include metal accessories and prefabricated glass, metal or plastic curtain walls or panels. The scope of work shall include the caulking incidental to all such work and shall include the fabrication and installation of garage and industrial doors and shower and tub enclosure doors and metal facias, store front awnings or canopies.

Lathing and plastering contractor is a contractor qualified by three (3) years experience, who has passed a written examination and certified to apply and affix wood, gypsum or metal lath or any other product prepared or manufactured, including the placing of metal studs and runners to which lath is to be applied, to provide key or suction bases for the support of plaster coatings, to provide hangers, channels and other mechanical suspension work for the support of lath or acoustical tile or other prefabricated ceiling materials, including the channel iron work for the support of metal or other fire resistive lath on walls, ceilings or soffits, or for solid plaster partitions; and to coat surfaces with a mixture of sand or other aggregate, gypsum, plaster, Portland cement or quick lime and water or any combination of such materials as to create a permanent surface coating and which coatings are usually applied with a plasterer's trowel or by pneumatic pressure on any surface which offers a mechanical key for the support of such coatings or to which the coating will adhere by suction. The scope of work shall not include the erection of wood stud or masonry walls. Such contractor may perform the work of a drywall contractor.

Metal decking and siding contractor is a contractor qualified by three (3) years experience, who has passed a written examination and certified to erect metal decking and siding or other material incidental thereto that may be used for enclosing buildings or other structures including welding, bolting or other attachments in connection therewith and including such minor field fabrication as may be necessary and also the installation of industrial doors and windows in connection therewith.

Metal awning and storm shutter contractor is a contractor qualified by one (1) year experience, who has passed a written examination and certified to fabricate, erect and install awnings or canopies of metal including other materials, incidental thereto, in or on buildings or other structures, and which may be, in whole or part, supported from a building wall erected and

provided by others, or may be self-supporting, including footings or slabs on grade in connection therewith.

Miscellaneous metals contractor is a contractor qualified by three (3) years experience, who has passed a written examination and certified to fabricate, apply, erect and install miscellaneous appurtenances, appendages, parts or equipment of metal, including other materials incidental thereto, in or on buildings or other structures and shall also include all work involving: metal awnings and storm shutters, canvas awnings, metal cabinets and store fixtures, screen enclosures and all work incidental thereto, metal partitions, flagpoles, ornamental metals including structural railings, and metal sunshades. The work of a miscellaneous metals contractor shall **not** include the work of a metal decking and siding contractor, reinforcing steel placing contractor, or structural steel contractor.

Non-electric sign contractor is a contractor qualified by three (3) years experience, who has passed a written examination and certified to paint or otherwise apply or erect any outside display of characters, letters, illustrations or ornamentations which do not include the incorporation of any electrical work in their manufacture, fabrication or erection. The work of a non-electric sign contractor shall include the installation of panels, facing, frame, structure, movable or fixed, free standing or attached to a building or other structure which is to be used for sign purposes and which do not include any electrical work in their manufacture, fabrication or erection.

Pneumatic concreting and pressure grouting contractor is a contractor qualified by three (3) years experience, who has passed a written examination and certified to proportion and apply concrete to surfaces by pneumatic methods, chip loose concrete, sandblast and clean reinforcing, batch and proportion cement, sand and water, to erect forms and framework to which concrete is to be applied pneumatically and place miscellaneous reinforcing for repair of concrete and to proportion and place cement and intergrout by pneumatic pumping methods that under an agreed specifications subsurface load bearing capacities can be stabilized or previously settled structures raised or restored to plumb, grade or alignment.

Pre-stressed precast concrete erection contractor is a contractor qualified by three (3) years experience, who has passed a written examination and certified to erect structural precast concrete units such as decks, beams, girders, walls, columns and stairs that are or may be used as structural members for buildings and structures, including welding and rigging in connection therewith and to erect precast concrete units for guard rails and decorative panels above the ground floor, including such minor field fabrication as may be necessary.

Reinforcing steel placing contractor is a contractor qualified by three (3) years experience, who has passed a written examination and certified to fabricate, place, tie and weld steel reinforcing bars (rods) that are or may be used to reinforce concrete buildings or structures.

Roofing contractor is a contractor qualified by three (3) years experience, who has passed a written examination and certified to install, repair and replace roof systems, as defined in the Building Code, and the waterproofing thereof. Work may include, but shall not be limited to, roof deck insulation, roof coating, painting and covering, including use of sheet metal and installation of other sheet metal products incidental to roofing work, including gutters and downspouts, and other material in connection therewith or any combination thereof and including installation of nonstructural decking and siding. During the repair or replacement process of a roof system, a roofing contractor shall be allowed to repair and/or replace damaged decking and/or damaged wood structural or nonstructural members of the roof framing, provided that such replacement and/or repair conforms to the requirements of the Building Code and the repair or replacement of damaged decking and wood structural or nonstructural members of the roof framing constitutes less than fifty (50) percent of the value of the total work performed.

Roof deck contractor is a contractor qualified by one (1) year experience, who has passed a written examination and certified to erect, construct, fabricate and install roof decks of Portland cement or gypsum concrete, using lightweight aggregate, on joists or other supporting members erected by others, and shall include the placing of forms and welding of supporting members for forms and miscellaneous reinforcing of the deck and the proportioning, mixing and placing of cement, aggregate and water, provided, however, that roof decks of wood, metal, heavy aggregate concrete, glass or plastic and the application of roofing felts or other water resistant membranes shall not be a part of the scope of such work.

Screen enclosure contractor is a contractor qualified by one (1) year experience, who has passed a written examination and certified to fabricate, erect and install on grade only, screen enclosures with metal-supporting members, in whole or in part self-supporting, having walls and roof of screen except that the roof may be of metal or plastic where the area of solid wind resistant material does not exceed forty (40) percent of the area of screen roof. The scope of work shall include footings or slab on grade in connection therewith.

Structural steel erection contractor is a contractor qualified by five (5) years experience, who has passed a written examination and certified to erect structural steel shapes and plates including such minor field fabrication as may be necessary, of any profile, perimeter or cross-section, that are or may be used as structural members for buildings and structures, including steel joists, steel decking and siding, and communication towers, and including riveting, welding and rigging only in connection therewith.

Swimming pool contractor is a contractor qualified by three (3) years experience, who has passed a written examination and certified to install, repair pools, whose scope of work involves two (2) or more building trades

or crafts and is qualified and certified to excavate, construct, fabricate, install and equip swimming pools and such contractor shall subcontract to a qualified contractor, in the field concerned, all other work set forth in this chapter as being the exclusive work of a plumbing, electrical, mechanical or liquefied petroleum gas contractor.

Unit masonry, marble and exterior veneer contractor is a contractor qualified by three (3) years of experience, who has passed a written examination and certified to select, cut and lay brick and concrete block or any other unit masonry products, or clay products, rough cut and dress stone, artificial stone and precast blocks, structural glass brick or block, decor block and veneer, laid at random or in course, with or without mortar, or to do any part, or any combination thereof and shall include the application of tile to floors and exterior wall surfaces; provided, however, that the scope of work shall not include the pouring, placing or finishing of cast-in-place concrete except for masonry or precast concrete fences.

Utility building contractor is a contractor qualified by three (3) years of experience, who has passed a written examination and certified to erect and install uninhabitable prefabricated buildings made of metal, wood or other approved material on an approved foundation or base. The forming, mixing, constructing and/or placing of the concrete slab, base, anchor or foundation is a part of the scope of work of such contractor.

Waterproofing contractor is a contractor, qualified by two (2) years experience, who has passed a written examination, is qualified and certified to clean, sandblast, caulk, and prepare the surface to install, repair and replace waterproofing systems, including the incidental use of sheet metal and various other components in connection therewith to stop the passage of water by applied protective material, membrane, surfacing, or sealant, excluding on grade asphalt surfaces. In no way is this to be interpreted as limiting, denying, or excluding general, building, residential and roofing contractors in the performance of this craft.

Non-examination specialty building contractor is a building contractor who specializes in one (1) or more of the following building crafts established by the Board to not require either written or oral examination to determine proficiency as allowed in Section 10-9 (c) and whose scope of work is limited under the certificate of competency held, and whose principal contracting business is the execution of contracts, usually subcontracts, in such a manner as to comply with all plans, specifications, codes, laws and regulations applicable, and who has the financial means and has a qualifying agent with the experience, knowledge and skill as evidenced by two (2) years' experience or educational equivalent thereto, or any combination thereof, as approved by the Board, in the particular building specialty concerned, except as such two (2) year period may be modified in the particular categories listed hereinafter. Such contractor shall subcontract with a qualified contractor any work which is incidental to the work of the specialty but which is specified herein as being the work of other than that of the building specialty for which

certified. The following are the various crafts of non- examination specialty building contractors.

Canvas awning contractor is qualified and certified to fabricate, erect and install metal-framed canvas covered awnings or canopies, in or on buildings or other structures, and which may be, in whole or in part supported on a building wall erected and provided by others, or may be self-supporting, and including the miscellaneous hardware for ready extension or extraction of such awnings and including footings in connection therewith. The scope of work in this category shall also include the erection and removal of canvas tents. Experience requirement as a prerequisite to issuance of certificate shall be one (1) year.

Concrete finishing contractor is qualified and certified to screed, trowel, score and otherwise provide surface treatment to concrete placed by others whether or not such concrete is fresh or hardened. Application of surface treatment material is included in this scope of work but not tile, plaster or stucco. Experience requirement as a prerequisite to issuance of certificate shall be two (2) years.

Décor block contractor is qualified and certified to lay block in openings provided by others between structural columns or in frames provided by others. The scope of work shall also include the erection of columns and caps for fences or walls not exceeding five (5) feet in height and balcony railings or stair railings not exceeding four (4) feet in height above the surface adjacent thereto on at least one side. Where décor blocks are attached to the exterior of a wall as a veneer, this work shall be that of a unit masonry wall and exterior veneer contractor. Experience requirement as a prerequisite to issuance of certificate shall be one (1) year.

Door contractor is qualified and certified to fabricate and install swinging or sliding doors of wood or metal or material other than glass not exceeding seven (7) feet in height and not exceeding six feet (6) in width, except where the glass area therein does not exceed fifty percent (50%) of the area of the door and where such door is installed in openings in building walls erected and provided by others, provided however, that glass or sliding doors shall not be a part of the scope of such work. Experience requirement as a prerequisite to issuance of certificate shall be one (1) year.

Finish Carpentry (Store fixtures and cabinets contractor) is qualified and certified to fabricate and erect cabinets, store fixtures and similar prefabricated or on-site fabricated enclosures of wood or plastic, of a non-structural nature. Contractor is also permitted to apply paneling to the interior of a structure. The paneling may be of wood or synthetic products or a combination of both. The contractor may set interior door jambs, hang interior wood doors, and apply miscellaneous molding to a structure. The experience requirement as a prerequisite to issuance of a certificate shall be two (2) years.

Flooring contractor is qualified and certified to fabricate and apply floor surfacing materials of concrete, clay ceramic, asphalt, vinyl, or cork tile, linoleum and seamless products (both liquid and sheet), parquet wood, wood strip flooring or similar wearing surfaces, prefabricated or cast-in-place or any other material to include interlocking paver systems, however, floor decks constructed and provided by others shall not be a part of such scope of work. The scope of work shall be limited to private property and shall not include work on driveways, sidewalks, or approaches. The scope of work also includes the installation, maintenance and repair consisting of but not limited to cleaning, sanding, finishing, waxing, repairing, and painting of terrazzo, wood, or marble surfaces on floors and baseboards, tile veneer not exceeding three-fourths inch (3/4") in thickness to the exterior of buildings and to a height not exceeding six feet (6') above grade. Experience requirement as a prerequisite to issuance of certificate shall be two (2) years.

Garage and industrial door contractor is qualified and certified to fabricate and install swinging, sliding or overhead doors of unlimited dimension and of any material and where such door is installed in openings in building walls or attached to a building erected and provided by others. The scope of this category shall include the installation of incidental hardware such as, but not limited to locks, fusion linkage, springs, gears or motor operation except that electric work shall be subcontracted to a qualified and certified electrical contractor, provided however, that the installation of glass or sliding glass doors shall not be a part of the scope of such work. Experience requirement as a prerequisite to issuance of certificate shall be one (1) year.

Gypsum drywall installer contractor is qualified and certified to install gypsum drywall products to studs, joists and suspended ceiling channels, provided that any installation of studs, joists and suspended ceiling channels and the installation of tape joints and finishes shall not be a part of such work. Experience requirement as a prerequisite to issuance of certificate shall be two (2) years.

Gypsum drywall finish contractor is qualified and certified to install tape joints, joint compounds and finish coatings to gypsum drywall surfaces provided that any installation of gypsum drywall shall not be part of such work. Experience requirement as a prerequisite to issuance of certificate shall be two (2) years.

Insulation and acoustic tile contractor is qualified and certified to fabricate, install and apply thermal or acoustic material to walls, floors, ceilings or within such walls, floors or ceilings, by mechanical or adhesive methods to supporting members provided by others in such manner that under an agreed specification satisfactory insulation can be accomplished. The scope of work shall also include the installation of metal channels, hangers or suspension systems for the supporting of acoustic, thermal acoustic tile or drop in units, provided however, the insulation of pipes, vessels or ducts or built up refrigeration boxes or rooms as may be under the category of a Mechanical Insulation Contractor or the application over the top of a roof deck where

such insulation is attached by adhesion shall not be a part of this scope of work. Experience requirement as a prerequisite to issuance of certificate shall be two (2) years.

Metal partitions contractor is qualified and certified to fabricate, erect and install non-bearing interior and exterior (usually prefabricated) partitions of metal and wood or having panels of other materials and which partitions are attached in openings or to building components erected and provided by others. The scope of work of this category shall include metal or wood studs and runners (site fabricated), provided, however, lathing, plastering or wood or other panel materials or surfacing applied after the frame is in place shall not be a part of such scope of work. Experience requirement as a prerequisite to issuance of certificate shall be one (1) year. NOTE: this category may **not** be combined with Gypsum Drywall Installer or Gypsum Drywall Finisher.

Ornamental metals iron contractor is qualified and certified to fabricate, erect and install ornamental metal iron non-structural members or assemblies, excluding structural railings and panels, and sunshades. Work under this category shall be limited to single family or duplex structures. Experience requirement as a prerequisite to issuance of certificate shall be two (2) years.

Painting contractor is qualified and certified to clean, size and perform minor caulking in preparation for painting, paint, apply any letters, illustrations, characters or ornamentation, paper and related liquid or viscous products thereon by brush, rollers or spray method in such manner that under an agreed specification satisfactory painting and paperhanging can be accomplished. This category shall include cleaning roofs of fungus, dirt and paint by steam or chemicals and to apply paint or other decorative coatings to roof surfaces (usually tile) and shall include the replacement of broken tile not exceeding that of five percent (5%) of the roof surface; and parking lot stripping denoting parking stalls or traffic directions. Experience requirement as a prerequisite to issuance shall be one (1) year.

Public seating contractor is qualified and certified to fabricate, erect and install prefabricated or precut public seating, with or without backs, fixed or movable, including the supporting framework above a level deck, of metal or other materials incidental thereto, including hardware and site painting and finishing. Height of seating shall not exceed eight feet above the level deck. Experience requirement as a prerequisite to issuance of certificate shall be three (3) years.

Sheet metal and downspout contractor is qualified and certified to fabricate, erect and repair sheet metal, copper, vinyl, plastic or other material used for the sole purpose for gutters and downspouts. Experience requirement as a prerequisite to issuance of certificate shall be one (1) year.

Shower and tub enclosure contractor is qualified and certified to fabricate and install glass, plastic or metal enclosures around interior showers and tubs, provide miscellaneous hardware therefore between walls erected or provided

by others and install wall mirrors. Experience requirement as a prerequisite to issuance of certificate shall be one (1) year

Traditional thatch hut contractor is qualified and certified to erect, fabricate, install, repair and replace thatch roof systems. The work may include but shall not be limited to foundation, wood post and beam erection and thatch roof installation. However electrical, plumbing or mechanical work is not included. Any person who applies for certification as a traditional thatch hut contractor shall demonstrate experience requirement as a prerequisite to issuance of certificate shall be two (2) years.

ENGINEERING CONTRACTOR

General engineering contractor is an engineering contractor whose contracting business consists of the execution of contracts involving two (2) or more trades and who has the financial means, and who has a qualifying agent with the art, ability, experience, knowledge, science and skill gained by not less than ten (10) years' experience either as a superintendent for a general engineering contractor or as a licensed building or engineering contractor for such period (or has had an education equivalent thereto) or any combination thereof, to construct and properly supervise, direct and coordinate work in the engineering trade in such a manner as to comply with all plans, specifications, codes, laws and regulations applicable, and who has satisfactorily passed a general engineering contractor's examination. The scope of work of the general engineering contractor shall be unlimited in the engineering trade field, except that his work in connection with utilities shall be considered to stop at a point five (5) feet from a building not specifically constructed for the purpose of pumping or processing pipeline products. Such contractor shall subcontract to a qualified contractor in the field concerned, all other work specified herein as being the exclusive work of a plumbing, electrical, mechanical or liquefied petroleum gas contractor, including the specialties and categories there under. A general engineering contractor may contract for, and take out permits for the work of a general building contractor.

Specialty engineering contractor is an engineering contractor who specializes in one (1) or more of the following engineering crafts and whose scope of work is so limited under the certificate of competency held. Such contractor's principal contracting business is the execution of contracts, in some instances subcontracts, and possibly involving two (2) or more trades and who has the financial means, and has a qualifying agent with the experience, knowledge and skill as herein set forth, to engage in the business of the particular engineering specialty concerned, in such a manner as to comply with all plans, specifications, codes, laws and regulations applicable, and who has satisfactorily passed an examination in the engineering specialty concerned. Such contractor shall subcontract with a qualified contractor any work which is incidental to the specialty but which is specified herein as being the work of other than that of the engineering specialty for which

certified. The following are the various crafts of specialty engineering contractors.

Asphalt sealing (excluding roadway pavements) contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than one (1) year as a general superintendent for an engineering contractor and/or the education equivalent thereto, or a combination thereof, and qualified and certified to seal driveways and parking lots only; if cracks, holes or any repair is needed, it must be done by a certified paving contractor.

Concrete-work engineering contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than one (1) year as a general superintendent for a building or engineering contractor, or education equivalent thereto, or a combination thereof, and qualified and certified to construct concrete and brick pavers driveways and approaches, sidewalks, curbs and gutters and related nonstructural concrete components.

Direct burial cable television (CATV) contractor is an engineering contractor certified by this Board to trench, backfill and restore paving and concrete block and cement work either incidental to or as a part of the work of installing, repairing, altering or adding to any system of underground cable in the public rights-of-way for the commercial transmission of television signals. Such contractor shall have a qualifying agent with experience and skill gained by at least two (2) years' practical work in this field and who has passed an examination approved by this Board. The scope of work of this classification shall be limited to that work directly involved in performing contract work underground for direct burial of cable for receiving and transmitting community antenna television signals.

Excavating and grading engineering contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than two (2) years as a general superintendent for an engineering contractor or education equivalent thereto, or a combination thereof, and certified to make excavations, to obtain or remove materials such as rock, gravel or sand, to construct or excavate canals, lakes, levees, roadways, including land clearing, filling and grading. An excavating and grading engineering contractor may do the work of a land clearing and grubbing engineering contractor.

Fuel transmission and distribution line engineering contractor is an engineering contractor, who has a qualifying agent with the experience and skill gained by not less than three (3) years' experience in this field or education equivalent thereto, or a combination thereof, qualified and certified to excavate for and construct, alter, repair and maintain transmission and distribution lines for liquid or gaseous fuels under pressure in welded pipes, including pumping and booster stations, valves, meters and similar components incidental thereto and restoration of pavement. The scope of

work of a fuel transmission and distribution line engineering contractor shall be considered to stop at the metering device.

Land clearing and grubbing engineering contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than one (1) year as a general superintendent for an engineering contractor or education equivalent thereto, or a combination thereof, and qualified and certified to clear land of surface debris and vegetation growth, including the grubbing of roots, the removal of the debris there from and the general leveling of the surface thereafter and work incidental thereto.

Paving engineering contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than three (3) years as a general superintendent for an engineering contractor or education equivalent thereto, or a combination thereof, and qualified and certified to construct roads, airport runways, and aprons, parking lots, sidewalks, curbs and gutters, property line walls, storm drainage facilities and to perform the excavating, clearing and grading incidental thereto. A paving engineering contractor may not excavate for canals and lakes.

Plant construction engineer contractor is an engineering contractor who has a qualifying agent with the experience and skill gained but not less than three (3) years as a general superintendent for a general building or general engineering contractor or education equivalent thereto, or a combination thereof, and certified to construct and properly supervise, direct and coordinate the construction of buildings, plants and other structures which are incidental to water treatment plants, sewage treatment plants, pumping and lift stations, power generating plants and sub-station, including the equipment and piping installation (except the exclusive work of an electrical contractor) and placing therein in connection with the purpose for which the structure is being erected. A plant construction engineering contractor may perform the work of a pile driving and foundation engineering contractor.

Pile driving and foundation engineering contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than two (2) years as a general superintendent for a general building or general engineering contractor or education equivalent thereto, or a combination thereof, and qualified and certified to drive piling including sheet piling and construct foundations including the excavating, forming and placing of reinforcing steel and concrete and perform other work incidental thereto.

Pipeline engineering contractor is an engineering contractor who has a qualifying agent who is qualified by the experience and skill gained by not less than three (3) years as a general superintendent for a general engineering contractor or pipeline engineering contractor or education equivalent thereto, or a combination thereof and certified to trench, backfill and restore paving, concrete block and cement work, either incidental to or as part of the work of excavating, constructing, installing, repairing or altering pipelines, such as

water and gas transmission and distribution lines, storm and sanitary sewerage lines, force mains, outfalls, and pumping facilities incidental to the collection or installation of pipeline products including the equipment and piping installation and placing within a structure which is constructed for the purpose of pumping or processing such pipeline products. A pipeline engineering contractor may construct or install junction boxes, manholes, inlets, valves and similar components, in such a manner as to comply with all plans, specifications, codes, laws and regulations applicable. The work of the pipeline engineering contractor shall be considered to stop at a point five (5) feet from a building not specifically constructed for the purpose of pumping or processing pipeline products. The scope of work of such a contractor does not include the installation of chilled water lines or related work incidental thereto.

Railroad construction engineering contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than two (2) years in railroad construction, or education equivalent thereto, or a combination thereof, and qualified to construct railroads, including spur lines and sidings and all incidental work such as grading, placing ballast, track laying and installation of switch equipment.

Seawall and small dock engineering contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than two (2) years as a general superintendent for an engineering contractor or education equivalent thereto, or a combination thereof, and qualified and certified to construct seawalls and small docks. A seawall and small dock engineering contractor may drive piling for one (1) story building construction.

Soil compaction and tamping engineering contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than six (6) months as a general superintendent for a building or engineering contractor, or education equivalent thereto, or a combination thereof, and qualified and certified to compact fill in or surrounding buildings, bridges and trenches.

Structural engineering contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than three (3) years as a general superintendent for a general building or a general engineering contractor or education equivalent thereto, or a combination thereof, and qualified and certified to construct and properly supervise and direct the construction of bridges, tunnels, overpasses, harbor facilities, docks, shipyards, bulkheads, retaining walls, seawalls, dams, locks and similar structures. A structural engineering contractor may perform the work of a seawall and small dock engineering contractor, a pile driving and foundation engineering contractor, and a concrete work engineering contractor.

Underground electrical and communications conduits engineering contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than three (3) years in this field, or education equivalent thereto, or combination thereof, and qualified and certified to trench, backfill and restore paving and concrete block and cement work incidental to or a part of the work in the construction of manholes and splice pits, laying of rigid conduit for electrical communication lines. The scope of work of this classification shall be limited to that work directly involved in performing contract work for the construction of underground electrical and communication facilities.

ELECTRICAL CONTRACTOR

Electrical contractor is a contractor qualified by five (5) years experience, who has passed a written examination and certified whose contracting business consists of the execution of contracts requiring the experience, financial means, knowledge and skill to install, repair, alter, add to or change any electrical wires, fixtures, appliances, apparatus, raceways, conduit or any part thereof, which generates, transmits, transforms or utilizes electrical energy in any form for light, heat, power or communications including the electrical installations and systems within plants and substations, all in such manner as to comply with all plans, specifications, codes, laws and regulations applicable and his scope of work shall include that of a room air-conditioning contractor, installation only. A contractor whose principal contracting business consists of the execution of contracts requiring the experience and financial means as an electrical contractor; furthermore such contractor shall have as a qualifying agent a master electrician. The scope of such contractor's work shall apply to private and public property and shall include any excavation and paving work incidental thereto, and shall include the work of all specialty electrical contractors. Such contractors shall subcontract with a qualified contractor in the field concerned, all other work incidental to the work, but which is specified herein as being the work of a trade other than that of an electrical contractor.

A specialty electrical contractor is a contractor who specializes in one (1) or more of the following crafts and whose scope of work is so limited under his certificate of competency. Such contractor's principal contracting business is the execution of contracts requiring the financial means to engage in the business of the particular electrical specialty concerned, in such a manner as to comply with all plans, specifications, codes, laws and regulations applicable. Such contractor shall have as a qualifying agent a specialty electrical master in the specialty field concerned and shall subcontract with a qualified contractor in the field concerned, all other work incidental thereto, but which is specified herein as being the work of a trade other than that of the electrical specialty for which he is certified. The following are the various crafts of specialty electrical contractors.

Burglar alarm specialty electrical contractor is a contractor qualified by five (5) years experience, which has passed a written examination and is qualified

and certified to install, repair, alter, add to or change any system electrically energized, in whole or in part, for the detection, prevention or control of burglary. The scope of these systems shall include conductors and raceways, radio frequency carriers, laser beams, light beams, sonic beams, and any other means of signal transmissions, as well as all apparatus pertaining to burglar alarm systems. A burglar alarm specialty electrical contractor may connect to an existing separate circuit of approved capacity, which is terminated in an approved outlet, junction box, or fused disconnect switch within six (6) feet of the equipment to be energized. Such contractor shall have as a qualifying agent a burglar alarm master. Also burglar alarm journeymen are required in this trade.

Prior to the issuance of a certificate of competency to such a master or journeyman, the issuing authority will have obtained from the Miami- Police Department the following: (1) a clearance based upon a check of the files of that department to the effect those files reflect that the applicant has never been convicted of a felony and has not within the preceding five (5) years been convicted of any criminal offense involving dishonesty or a breach of trust; and (2) confirmation that the Department has fingerprinted the applicant. Such a master or journeyman shall carry at all times during which he is engaged in the contractor's business an identification card issued by the contractor which card will contain the date of issue, a recent photograph of applicant, the applicant's name and title, physical description, signature and right thumbprint. Such identification card will also bear the name, address, and telephone number of the employing contractor together with the signature and title of the appropriate supervisor representing the contractor.

Cross references: Automatic telephone dialing alarm system, § 8A-162 et seq.; burglar security, Ch. 8C.

Electrical sign contractor is a contractor qualified by five (5) years experience, which has passed a written examination and is qualified and certified to install, repair, alter, add to or change any electrical wires, apparatus, raceways, conduit or any part thereof, on electrical signs. Such contractor may connect to an existing sign circuit, beyond the last over current device, and may contract for and take out building permits for the erection of signs.

Fire alarm contractor is a contractor qualified by five (5) years experience, which has passed a written examination and is qualified and certified to install, repair, alter, add to or change any system, electrically energized, in whole or in part, for the detection, prevention or control of fire, noxious gases, liquids or atomic radiation. The scope of these systems shall include conductors and raceways, radio frequency carriers, laser beams, light beams, sonic beams, and any other means of signal transmissions as well as all apparatus pertaining to fire alarm systems. A fire alarm specialty electrical contractor may connect to an existing separate circuit, of approved capacity, which is terminated in an approved outlet, junction box, or fused disconnect switch within six (6) feet of the equipment to be energized. Such contractor shall have as a qualifying agent a fire alarm master. Also fire alarm journeymen are required in this trade.

Low voltage specialty electrical contractor is a contractor qualified by two (2) years experience, which has passed a written examination and is qualified and certified to install, fabricate, erect, repair, alter, add to or change any electrical wiring, fixtures, appliances, thermostats, apparatus, raceways and conduit, or any part thereof, not to exceed seventy-seven (77) volts, which generates, transmits, transforms or utilizes electrical energy, when those items are for the purpose of transmitting any form of light, heat or communications, including but not limited to telephone, radio, computer and data. A low voltage specialty electrical contractor may connect to an existing separate circuit of approved capacity, which is terminated in an approved outlet, junction box or fused disconnect within six (6) feet of the equipment to be energized. Such contractor shall have as a qualifying agent a master low voltage technician as defined below. The scope of the work of such a contractor shall not include the work of burglar alarm and fire alarm specialty electrical contractors.

Master Low voltage technician is a technician qualified by two (2) years experience, which has passed a written examination and is certified as a mechanic, supervisor or manager, or educational equivalent thereto, in the low voltage specialty electrical contractor trade. He shall possess a valid certificate of competency as a master technician.

Master TV antenna specialty electrical contractor is a contractor qualified and certified by two (2) years experience, which has passed a written examination and is certified, repair, alter, add to or change any privately owned TV antenna systems on and in multiple occupancy, residential or commercial buildings of three (3) or more tenants, rooms or apartments all connected to a central master system, as well as in theaters, schools and like public occupancies. Such systems may be electrically energized in whole or in part for the reception, amplification and distribution of TV signals. The scope of these systems shall include conductors and raceways, radio frequency carriers, laser beams and any other means of signal transmission as well as all apparatus pertaining to master TV antenna systems, including but not limited to amplifiers, splitters, cables and outlets for connecting individual TV sets. A master TV antenna specialty electrical contractor may connect to an existing separate circuit of approved capacity, which is terminated to an approved outlet, junction box, or fused disconnect switch within six (6) feet of the equipment to be energized. Such contractor shall have as a qualifying agent a master TV antenna master technician as defined below.

Maintenance electrician is qualified and certified by one (1) year of experience, who has passed a written examination and certified to maintain electrical installations. A maintenance electrician can perform or supervise the work of other personnel under a premise permit providing that such work shall be confined to the repair of existing branch circuits, fixtures, apparatus or equipment connected thereto, and shall include the relocation of existing branch circuits and the switching and de-energizing of existing facilities for

safety purposes, contained and used upon the premises or building, owned, occupied or otherwise controlled by the person, firm or corporation by whom the maintenance electrician is regularly employed. The maintenance electrician's work shall not include the installation, alteration or replacement of service equipment or any feeder to any center or centers of service equipment. A certified master or journeyman electrician shall automatically qualify as maintenance electrician.

Utility electrical contractor is a contractor qualified by three (3) years experience, which has passed a written examination and is certified to install, repair, alter, add to or change any electrical wires, apparatus, raceways, conduit, or any part thereof, on underground or overhead electric utilities transmission and distribution lines or distribution systems including such distribution work within power plants and sub-stations. The scope of work in this classification shall be limited to the work directly involved in performing contract work for the construction of electric utility distribution systems and shall include any excavation and paving work incidental thereto. All other personnel employed by a utility electrical contractor shall be exempt from the requirements of this chapter.

MECHANICAL CONTRACTOR

General mechanical contractor is a contractor qualified by five (5) years experience, who has passed a written examination and certified whose contracting business consists of the execution of contracts requiring the experience, financial means, knowledge and skill to perform the following: install, maintain, repair, alter or extend air conditioning, refrigeration, heating, ventilating, boiler and unfired pressure vessel systems, and all appurtenances, apparatus or equipment used in connection therewith; also, piping, duct work, insulation of pipes, vessels and ducts, pressure and process piping, installation of chilled water lines and related work incidental thereto, pneumatic control piping, gasoline tank and pump installations, piping for gasoline tank and pump installations, air piping, vacuum line piping, oxygen lines, nitrous oxide piping, ink and chemical lines, fuel transmission lines, mechanical sections of sewage disposal and water treatment plants and installing a condensate drain from an air conditioning unit to an existing safe waste or other approved disposal other than a direct connection to a sanitary system, all in such a manner as to comply with all plans, specifications, codes, laws and regulations applicable. Such contractor shall have as qualifying agent a general mechanical master. The scope of work of such contractor shall also include any excavation work incidental thereto, but shall not include any work specified in this chapter as being the work of any other trade or contractor, such as but not limited to liquefied petroleum or natural gas fuel lines within buildings to replace, disconnect, or reconnect power wiring on the load side of the dedicated existing electrical disconnect switch; to install, disconnect, and reconnect low wiring, potable water lines, or connections thereto, sanitary sewer lines, swimming pool piping and filters and electrical work. The scope of the work of such a contractor shall also include the work of a specialty mechanical contractor, except for elevator and

transporting assembly installations; and if there is work incidental to such contractor's authorized scope of work to be performed pursuant to contract for which such contractor does not hold a certificate of competency, such work shall be subcontracted to a qualified contractor in the trade concerned.

Specialty mechanical contractor is a contractor who specializes in one (1) or more of the following crafts and whose scope of work is so limited under his certificate of competency. Such a contractor shall have as a qualifying agent a specialty mechanical master in the field concerned. Such contractor's business is to consist of the execution of contracts requiring the experience, financial means, knowledge and skill to engage in the business of the particular mechanical specialty concerned, in such a manner as to comply with all plans, specifications, codes, laws and regulations applicable. The scope of work of any specialty mechanical contractor shall also include any excavation work incidental thereto but shall not include any work specified in this chapter as being work of any other trade or contractor, such as, but not limited to, electrical work, liquefied petroleum, or natural gas fuel lines within buildings, or potable water lines, or connections thereto, and sanitary sewer lines and swimming pool piping and filters. If there is work incidental to such contractor's authorized scope of work to be performed pursuant to contract for which such contractor does not hold a certificate of competency, such work shall be subcontracted to a qualified contractor in the trade concerned. The following are the various crafts of specialty mechanical contractors.

Air conditioning contractor (limited) is a contractor qualified by five (5) years of experience, who has passed a written examination and is a specialty mechanical contractor certified to install, repair, alter, or extend any system of air conditioning and warm air heating and ventilation in connection therewith, of a size not exceeding twenty-five (25) tons in any type of building providing the total conditioning load in any common area does not exceed twenty-five (25), including any or all duct systems necessary to make complete an air conditioning system, and including the installation of a condensate drain from such an air conditioning unit to an existing safe waste or other approved disposal other than a direct connection to a sanitary disposal system; provided that boiler and unfired pressure vessels shall not be part of the scope of work.

Ammonia refrigeration contractor is a contractor qualified by five (5) years of experience, who has passed a written examination and is a specialty mechanical contractor certified to install, maintain, repair, alter or extend any system of refrigeration using ammonia as a refrigerant including all appliances and appurtenances thereto.

Elevator maintenance and service contractor is a contractor qualified by five (5) years of experience, who has passed a written examination and is a specialty mechanical contractor certified to maintain and service any elevator, dumbwaiter or escalator; provided, however, transporting

assemblies, as defined by the Florida Building Code, shall not be a part of the scope of such work.

Gasoline tank and pump contractor is a contractor qualified by five (5) years of experience, who has passed a written examination and is a specialty mechanical contractor certified to install, maintain, repair, alter or extend any system used for storing and dispensing of gasoline, kerosene, diesel oils and similar liquid hydrocarbon fuels or mixtures to be used solely in connection with gasoline filling stations dispensing fuel to mobile vehicles or marine equipment; provided, however, bulk plants shall not be a part of the scope of such work.

Insulation contractor is a contractor qualified by five (5) years of experience, who has passed a written examination and is a specialty mechanical contractor certified to install, maintain, repair, alter or extend any insulation primarily installed to prevent loss or gain of heat from internal or external sources in pipes, vessels, ducts or in built-up refrigerated boxes or rooms, and such installations to include any protective coating thereof involved with insulation.

Heating contractor is a contractor qualified by five (5) years of experience, who has passed a written examination and is a specialty mechanical contractor, certified to install, maintain, repair, alter, add to or change systems of heating, whether by water, steam or hot air furnaces and all appurtenances and duct work used in conjunction therewith.

Mechanical service and maintenance contractor is qualified and certified by one (1) year of experience, who has passed a written examination and certified on or before May 14, 1976, to repair and maintain, without alteration or addition, any system of air conditioning, heating, ventilating, boiler and unfired pressure vessels and apparatus and equipment in connection therewith. Such a contractor shall have as a qualifying agent one (1) who is qualified as a mechanical service and maintenance master in the field or fields of work enumerated herein and can only hold a certificate of competency as such a contractor in such field or fields for which such qualifying agent is approved. Only those contractors holding current, valid certificates of competency as mechanical service and maintenance contractors on or before May 14, 1976, shall be entitled to such certificates. No further mechanical service and maintenance contractor's certificates shall be issued, and mechanical service and maintenance work shall be done, other than as indicated above, by contractors certified and qualified as general mechanical contractors or by specialty mechanical contractors in the field or fields concerned.

Pressure and process piping contractor is a contractor qualified by five (5) years of experience, who has passed a written examination and is a specialty mechanical contractor, certified to install, maintain, repair, alter or extend any systems of piping, tubing, vessels, containers, pumps, apparatus, and appurtenances, in connection with such pressure piping used for circulation,

transporting, holding or processing of any gas, vapor, fluid, liquid, semi-liquid or any combination thereof; provided, however, that boilers, boiler piping, as defined by the Boiler and Pressure Vessel Code (1965) of the American Society of Mechanical Engineers, piping used to convey potable water, sanitary sewage, liquefied petroleum, manufactured or natural gas or refrigeration, air conditioning, and comfort heating piping shall not be a part of the scope of such work.

Pneumatic control piping contractor is a contractor qualified by five (5) years of experience, who has passed a written examination and is a specialty mechanical contractor, certified to install, maintain, repair, alter or extend any system used for the purpose of controlling various instruments, valves, damper motors, controllers, and similar paraphernalia through pneumatic lines of size and strength required for the duty performed.

Room air conditioning contractor is a contractor qualified by five (5) years of experience, who has passed a written examination and is a specialty mechanical contractor, certified to install, service and repair any air conditioning unit consisting of and limited to a package unit, completely self-contained, air-cooled, usually called a room unit and not to exceed three (3) tons and attached to electric power only by the method of a plug-in receptacle. This unit, factory wired and supported only by window or wall supports, shall not have any duct work attached or any method of air distribution other than the unit's factory installed grill; provided that installation of any condensate drain or drains to the outside of the unit is not included in this work.

Refrigeration contractor (limited) is a contractor qualified by five (5) years of experience, who has passed a written examination and is a specialty mechanical contractor, certified to install, maintain, repair or alter any system of refrigeration not exceeding five (5) horsepower, self-contained or with remote compressor, where such refrigeration system is for the purpose of food preservation and/or processing, other than human-comfort refrigeration systems. The scope of work of a refrigeration contractor (limited) shall be limited to refrigeration systems using Group I refrigerants only.

Refrigeration contractor (unlimited) is a contractor qualified by five (5) years of experience, who has passed a written examination and is a specialty mechanical contractor, certified to install, maintain, repair or alter any system of refrigeration unlimited to tons or horsepower, provided, however, that such refrigeration is intended to be used for the purpose of food and product preservation and/or processing and is not to be used for comfort systems; and further provided that this scope of work does not include ammonia refrigeration systems.

Sheet metal contractor is a contractor qualified by five (5) years of experience, who has passed a written examination and is a specialty mechanical contractor, certified to manufacture, assemble, cast, cut, shape, stamp, forge, fabricate, weld, repair, recondition, adjust and install sheet and

rolled metal of any kind or combination and all other materials used in lieu thereof, and including all air-veyor systems and air handling systems, trash, laundry and rubbish chutes regardless of materials used including all equipment and all reinforcements in connection therewith.

Steam generating boiler and boiler piping contractor is a contractor qualified by five (5) years of experience, who has passed a written examination and is a specialty mechanical contractor, certified to install, maintain, repair and service steam boilers and boiler piping, including the boiler auxiliary equipment, controls and steam actuated machinery such as, but not limited to, engines, pumps, prime movers, pressing machinery, and dryer rolls, but excluding comfort heating systems.

Transporting assembly installation contractor is a contractor qualified by three (3) years of experience, who has passed a written examination and is a specialty mechanical contractor, certified to install, maintain, alter and extend any permanent or semi-permanent device, manually or power-operated, other than elevators, dumbwaiters or escalators used for transporting materials or persons in any horizontal, inclined or vertical direction, and such assemblies shall include but shall not be confined to the following: amusement devices used to convey persons as a form of amusement; inclined devices, with or without seats; but not considered as escalators; man hoists, stage and orchestra lifts, tiering and piling machines, skip hoists and wharf ramps; belt, bucket, scoop, roller or similarly inclined or vertical freight conveyors; and hoists which are used for handling material during construction of buildings and structures.

Transporting assembly maintenance and service contractor is a contractor qualified by three (3) years of experience, who has passed a written examination and is a specialty mechanical contractor, certified to maintain and service any permanent or semi-permanent device, manually or power-operated, other than elevators, dumbwaiters or escalators used for transporting materials or persons in any horizontal, inclined or vertical direction, and such assemblies shall include but shall not be confined to the following: amusement devices used to convey persons as a form of amusement; inclined devices, with or without seats; but not considered as escalators; man hoists, stage and orchestra lifts, tiering and piling machines, skip hoists and wharf ramps; belt, bucket, scoop, roller or similarly inclined or vertical freight conveyors; and hoists which are used for handling material during construction of buildings and structures.

Warm air heating contractor is a contractor qualified by three (3) years of experience, who has passed a written examination and is a specialty mechanical contractor, certified to install, maintain, repair or alter a system of warm air furnace heating and all appliances and appurtenances in connection therewith, including duct work, vents and flue connections.

Non-examination specialty mechanical contractor is a mechanical contractor who specializes in one (1) of the following building crafts

established by the Board to not need such technical knowledge as to require either written or oral examination in order to determine their proficiency in the craft concerned, as allowed in Section 10-9 (c), and whose scope of work is so limited under the certificate of competency held, and whose principal contracting business is the execution of contracts, usually subcontracts, in such a manner as to comply with all plans, specifications, codes, laws and regulations applicable, and who has the financial means and has a qualifying agent with the experience, knowledge and skill as evidenced by two (2) years' experience as a mechanic, or supervisory or managerial experience or education equivalent thereto, or any combination thereof, in the particular non-examination mechanical specialty concerned, except as such two (2) year period may be modified in the particular categories listed hereinafter. Such contractor shall subcontract with a qualified contractor any work which is incidental to the work of the specialty but which is specified herein as being the work of other than that of the mechanical specialty for which certified. The following are the various crafts of non-examination specialty mechanical contractors.

Pneumatic tube conveyor system contractor is a specialty mechanical contractor qualified and certified to install, maintain, repair, alter or extend any pneumatic tube conveyor system used for conveying carriers by vacuum or air pressure methods, including any piping, tubing, pumps, apparatus and appurtenances used in connection with such system. Experience requirement as a prerequisite to issuance of certificate shall be proof of three (3) years

PLUMBING CONTRACTOR

Plumbing contractor is a contractor qualified by five (5) years experience, who has passed a written examination and certified whose contracting business consists of the execution of contracts requiring the experience, financial means, knowledge and skill to install, maintain, repair, alter or extend plumbing, septic tanks, drainage and supply wells, swimming pool and piping or solar heating systems and all appurtenances, apparatus or equipment used in connection therewith, including boilers and pressure and process piping and including the installation of water, gas, storm and sanitary sewer lines, and for the mechanical installation of gas, water and sewage plants and substations. The scope of work of the plumbing contractors shall also include the installation, maintenance, repair, alteration or extension of air piping, vacuum line piping, oxygen line piping, nitrous oxide piping, fire line standpipes and fire sprinklers to the extent allowed by law, up to five (5) sprinkler heads out of potable water lines, ink and chemical lines, gasoline piping and tank and pump installation (excepting bulk storage plants) and pneumatic control piping systems, all in such a manner as to comply with all plans, specifications, codes, laws and regulations applicable. Such contractor shall have as qualifying agent a master plumber. The scope of work of the plumbing contractor shall apply to private and public property, shall include any excavation work incidental thereto and shall include the work of the specialty plumbing contractor. Such contractor shall subcontract, with a qualified contractor in the field concerned, all other work incidental to the

work, but which is specified herein as being the work of a trade other than that of a plumbing contractor. The scope of work of such a contractor does not include the installation of chilled water lines or related work incidental thereto.

Specialty plumbing contractor is a contractor who specializes in one (1) or more of the following crafts and whose scope of work is so limited under the certificate of competency held. The specialty plumbing contractor's principal contracting business is the execution of contracts requiring the experience, financial means, knowledge and skill to engage in the business of the particular plumbing specialty concerned in such a manner as to comply with all plans, specifications, codes, laws and regulations applicable and the qualifying for the specialty concerned. Such contractor shall sub-contract with a qualified contractor in the field concerned all other work incidental to the work, but which is specified herein as being the work of a grade other than that of the plumbing specialty for which such specialty plumbing contractor is certified. The following are the various crafts of specialty plumbing contractors.

Certified backflow preventer tester is a person who has satisfactorily completed a nationally recognized backflow preventer tester-training program that meets or exceeds any existing Florida Department of Environmental Protection (FDEP) standards or that is determined by Miami-Dade County Construction Trades Qualifying Board to meet the requirements of the latest edition of American Water Works Association (AWWA) M14 Manual. After satisfactorily completing a backflow preventer testing training program, as described above, the person shall be required to pass an examination administered under the direction of the Miami-Dade County Construction Trades Qualifying Board. All certified testers shall be required to be re-certified by the Board every two years. Backflow preventer testers who are currently certified as of the date of this ordinance will be permitted to test backflow preventers in Miami-Dade County until such time as the Miami-Dade County exam is first administered or until the existing certification expires whichever occurs later, but no later than **two (2) years**. In no event shall the training institute also serve as an examiner for the Miami-Dade County test. This certification shall allow the tester to test all backflow preventers as required in section 32-152 of the Code of Miami-Dade County. This certification is for testing only and shall prohibit the tester from repairing, replacing or new installation of backflow preventers as described in section 32-152 of the Code of Miami-Dade County.

Certified backflow preventer specialist is a person certified and qualified to do the work of a Certified Backflow Tester and is covered by the same definition except that a Certified Backflow Preventer Specialist shall also be able to repair backflow preventers as specified by definition in section 32-152 of the Code of Miami-Dade County. This certification does not allow the Certified Backflow Preventer Specialist to install or replace backflow preventers as described herein.

Gas fitting contractor is a contractor qualified by three (3) years experience, who has passed a written examination and certified to install, maintain, repair, alter or extend fuel gas piping or appliances, including wall and central heating units, in any building or structure or on any premises, public or private, including liquefied petroleum gas piping and appliances, if such contractor qualified, in addition, under State law. Such contractor shall have as a qualifying agent a master gas-fitter.

Lawn sprinkler contractor is a contractor qualified by one (1) year of experience, who has passed a written examination and certified in the lawn sprinkler trade, and qualified and certified to install, maintain, repair, alter or extend a lawn sprinkling system and appliances and devices used in connection with such systems, except that such systems shall not include the drilling of wells or the connecting of such systems to potable water. Sprinkler and irrigation systems used for agricultural purposes shall not be included within the scope of this subsection.

Maintenance plumber is qualified and certified by one (1) year of experience, who has passed a written examination and certified to maintain plumbing installations. The work of the maintenance plumber shall be confined to maintenance repairs involving only the working parts of a faucet or valve, the clearance of stoppages, repairing of leaks and the replacement of defective faucets or valves contained and used upon the premises or building owned, occupied or otherwise controlled by the person, firm or corporation by whom the maintenance plumber is regularly employed. Maintenance plumbers' work shall not include the cutting into, connecting to or extension of potable water lines, or drain waste and vent systems. A certified master or journeyman plumber shall automatically qualify as a maintenance plumber.

Swimming pool maintenance contractor residential is a contractor qualified and certified, who has passed a written examination and certified to maintain to do any or all of the following, including, but not limited to, maintaining and treating the water in existing swimming pools, both public and private, making minor repairs to existing pool masonry such as patching cracks in pool bottoms and walls, repainting or resurfacing the walls and bottoms of pools, performing preventive maintenance and replacing existing equipment and appurtenances thereof of swimming pools, such as pumps, valves, filters and chlorinators; provided, such a contractor may only replace existing equipment and appurtenances in private pools of single-family residences. Additional prerequisite to qualifying as a swimming pool maintenance contractor, the qualifying agent of the contractor must possess a current swimming pool operators certificate issued by the Miami-Dade County Department of Public Health, and must furnish proof satisfactory that he has been actively engaged as a trainee for a licensed swimming pool maintenance contractor in swimming pool maintenance work for a period of two (2) years immediately prior to application or work in the field of swimming pool maintenance contractor for a period of two (2) years and show proof by way of government forms or records, and proof of pool operator certificate issued by Miami-Dade County Department of Health for a period of two (2) years.

Swimming pool maintenance contractor commercial is a contractor qualified and certified by one (1) year of experience who has passed a written examination and certified to do the work of a swimming pool maintenance contractor residential and is covered by the same definition except that the swimming pool maintenance contractor commercial shall be able to carry on all such work in connection with both private and public pools.

NOTE: A swimming pool maintenance contractor is not permitted to do any other plumbing, electrical, or mechanical work as covered by the Building Code, or to do any of the original construction on installation in a new pool.

Swimming pool piping contractor is a contractor having the required financial means and having a qualifying agent as provided herein. Such qualifying agent shall have experience and skill gained by not less than one (1) year of experience, who has passed a written examination and certified in the installation of swimming pool piping under the supervision of a plumbing contractor or a contractor making swimming pool piping installations. Such qualifying agent shall be qualified, examined, and certified to perform the functions within the scope of work of a swimming pool piping contractor as hereinafter provided. The scope of work of a swimming pool piping contractor shall permit such a contractor to install, maintain, repair, alter, or extend swimming pool piping systems including the pumps, filters, pool heaters and chlorinators incidental to swimming pools and involving the means of disposing of pool water. The scope of work in this classification shall not include the making of connections to any water supply to be used for human consumption or to sanitary or storm sewers nor shall the scope of work include the installation of any lawn sprinkler system. The swimming pool piping contractor shall have a qualifying agent at all times. A contractor holding a current, valid certificate of competency as a swimming pool piping contractor on the effective date of this section shall continue to be entitled to such certificate and to do, contract for, and take out any permits which might be required for the work of a swimming pool piping contractor.

Non-examination specialty plumbing contractor is a contractor who specializes in one (1) of the following plumbing crafts established by the Board to not need such technical knowledge as to require either written or oral examination in order to determine their proficiency in the craft, as allowed in Section 10-9 (c) of the Code of Miami-Dade County and whose scope of work is so limited under the certificate of competency held, and whose principal contracting business is the execution of contracts, usually subcontracts, in such a manner as to comply with all plans, specifications, codes, laws and regulations applicable, and who has the financial means and has a qualifying agent with the experience, knowledge and skill as evidenced by two (2) years' experience as a mechanic, or supervisory or managerial experience or education equivalent thereto, or any combination thereof, in the particular non-examination plumbing specialty concerned, except as such two (2) year period may be modified in the particular category(ies) listed hereinafter. Such contractor shall subcontract with a qualified contractor any work which is incidental to the work of the specialty but which is specified

herein as being the work of other than that of the plumbing specialty for which certified. The following is (are) the various craft(s) of non-examination specialty plumbing contractors.

Portable chemical toilets contractor is a contractor qualified and certified by two (2) years of experience to install temporary and portable chemical toilets in accordance with the applicable provisions of the Florida Department of Health requirements and the Building Code requirements and equipment used to service temporary and portable units shall be inspected and approved by the Florida Department of Health and the plumbing inspector. Installation of units shall be inspected by the plumbing inspector.

MASTER

The term ***master*** shall mean any person to whom this Board has issued a current valid certificate of competency as a master in a trade after having passed a designated examination and having otherwise demonstrated to this Board that he or she possesses the required skill, knowledge and experience to plan, lay out, supervise and do the work in the trade. As a prerequisite to taking the examination, an applicant shall have held for not less than two (2) years this Board's certificate of competency as a journeyman and shall have at least two (2) years of prior field work experience. However, this Board may, in its discretion, accept in lieu of the journeyman certificate, satisfactory proof of (a) at least six (6) years of comprehensive, specialized training, education and field experience associated with the trade or (ii) registration as a professional engineer in the discipline concerned. "Field experience" is defined as experience gained at actual construction sites where the full spectrum of practical situations and problems arising in the trade are found; drafting, estimating, designing, other office work or maintenance or service installations do not satisfy the requirement. In the plumbing, electrical and mechanical trades a contractor must be qualified by a master. Masters are required to earn continuing education credit during each term the personal certificate of competency is valid as established in this chapter and as required by the Board through written rules or regulations commencing October 1, 1995.

JOURNEYMAN

The term ***journeyman*** shall mean any person who possesses the required skill, knowledge and experience, as evidenced by three (3) years' proven experience in the trade or craft, or education equivalent thereto, or a combination thereof, but not more than one-half (1/2) of such experience may be education equivalent, and who has passed an examination in his or her particular trade or craft and possesses a valid certificate of competency as a journeyman in such trade or craft. There shall be at least one (1) journeyman for every three (3) trainees on each construction or installation job site for which a permit is required, and which involves a trade in which journeymen are required and certified. It shall be the responsibility of the employing contractor, and the qualifying agent, to provide journeymen on each job site

in accordance with this section, and failure to do so shall be a violation of this chapter, subject to the penalties provided herein, and provided under Section 1-5 of this Code. In addition, any work in the trade concerned on any such job site wherein journeymen are not provided in accordance with this section shall be stopped by the enforcing agency or administrative agency concerned until journeymen are so provided. Further, any person working at a trade which requires journeymen on the job site where no journeyman or master in the trade concerned is present shall be in violation of this chapter and subject to the penalties provided herein, and provided under Section 1-5 of this Code. A journeyman may only work in the employ of a contractor holding a certificate of competency in the field in which the journeyman is certified. Journeymen shall be required in the electrical, plumbing and mechanical trades. Journeymen are required to earn continuing education credit during each term the personal certificate of competency is valid as established in this chapter and as required by the board through written rules or regulations commencing October 1, 1995.